

Attorney's Docket No. MP0237/13361/049001

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sehat Sutardja  
Serial No. : 10/621,058  
Filed : July 15, 2003  
Title : LOW LOSS DC/DC CONVERTER

Art Unit: Unknown  
Examiner: Unknown

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449.

This filing is being made before the receipt of a first Office action on the merits. No fee is required.

Each enclosed document listed on the herewith Form PTO-1449 was cited in the attached European Search Report dated December 1, 2004, issued in a foreign counterpart application not more than three months ago. To the best knowledge of the undersigned, this is the first citation of these items in any communication from a foreign patent office in a counterpart foreign application.

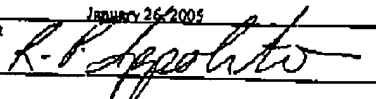
## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

January 26, 2005

Signature



Roxanne Forpolito

Typed or Printed Name of Person Signing Certificate

Attorney's Docket MP0237/13361/049001

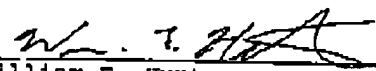
The documents are in the English language, hence no concise explanation is necessary per Rule 98(a)(3).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Please apply any additional charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 01/26/05

  
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10478401.doc

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**Date** February 10, 2005

**To** Examiner Jeffrey L. Sterrett  
United States Patent and Trademark Office  
Group Art Unit 2838  
Telephone: 571-272-2085

**Facsimile number** 13361-04900001 / 571-273-2085

**From** William E. Hunter

**Re** LOW LOSS DC/DC CONVERTER  
Applicant: Sehat Sutardja  
Application No.: 10/621,058  
Filing Date: July 15, 2003  
Country: United States  
Your Ref.: MP0237  
Our Ref.: 13361-049001

**Number of pages**  
**including this page** 46

**Message** Attached is a copy of the Information Disclosure Statement filed January 26, 2005.

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Sheet 1 of 1

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>MP0237/13361/049001</b>	Application No. <b>10/621,058</b>
	Applicant <b>Sehat Sutardja</b>		
	Filing Date <b>July 15, 2003</b>	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	5,010,261	04/23/1991	Stelgerwald			
	AB	5,687,067	11/11/1997	Majid et al			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
	AL	08-182305	07-12-1996	Japan			Yes	No
	AM						Abstract Only	
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Scott Deary, "Optimizing Transistor Performance in Synchronous Rectifier, Buck Converters", IEEE, 2000
	AR	
	AS	
	AT	

Examiner Signature	Date Considered
EXAMINER: Initial date considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)



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Europäisches  
Patentamt

Zweigstelle  
in Den Haag  
Recherche-  
abteilung

European  
Patent Office

Branch at  
The Hague  
Search  
division

Office des brevets  
Copy

Département 2  
La Haye  
Division de la  
recherche

Grünecker, Kinkeldey,  
Stockmair & Schwanhäusser  
Anwaltssozietät  
Maximilianstrasse 58  
80538 München  
ALLEMAGNE

68, Dez. 2004

Datum/Date

01.12.04

Zeichen/Ref./Ref. EP28639-034/Peu	Anmeldung Nr./Application No./Demande n°/Patent No./Brevet n° 03024437.0-2207-
Anmelder/Applicant/Demandeur/Pateninhaber/Proprietor/Titulaire Marvell World Trade Ltd.	

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract ☒ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 2

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 03 02 4437

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Incl. 17)
④ A	✓ PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11, 29 November 1996 (1996-11-29) -A JP 08 182305 A (MATSUSHITA ELECTRIC WORKS LTD), 12 July 1996 (1996-07-12) * abstract; figures 1,3,16 *	1-36	H03K17/16 H02M3/158 H03K17/687
④ A	✓ US 5 687 067 A (MAJIO NAVEED ET AL) 11 November 1997 (1997-11-11) * column 3, line 52 - column 4, line 65; figures 2-4 *	1-36	
④ T	✓ US 5 010 261 A (STEIGERWALD ROBERT L) 23 April 1991 (1991-04-23) * column 3, line 36 - column 3, line 50 *		
④ T	✓ DEUTY S: "Optimizing transistor performance in synchronous rectifier buck converters" APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION, 2000. APEC 2000. FIFTEENTH ANNUAL IEEE NEW ORLEANS, LA, USA 6-10 FEB. 2000, PISCATAWAY, NJ, USA, IEEE, US, 6 February 2000 (2000-02-06), pages 675-678, XP010371606 ISBN: 0-7803-5864-3 * page 676 *		
			TECHNICAL FIELDS SEARCHED (Incl. 17)
			H03K H02M
The present search report has been drawn up for all claims			
Place of search Madrid		Date of completion of the search 23 November 2004	Examiner Braccini, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background Q : non-written disclosure P : intermediate document I : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 02 4437

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-11-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 08182305	A	12-07-1996	NONE
US 5687067	A	11-11-1997	NONE
US 5010261	A	23-04-1991	NONE

EPO FORM P0139

For more details about this annex: see Official Journal of the European Patent Office, Nr. 12/82